

FIG. 1

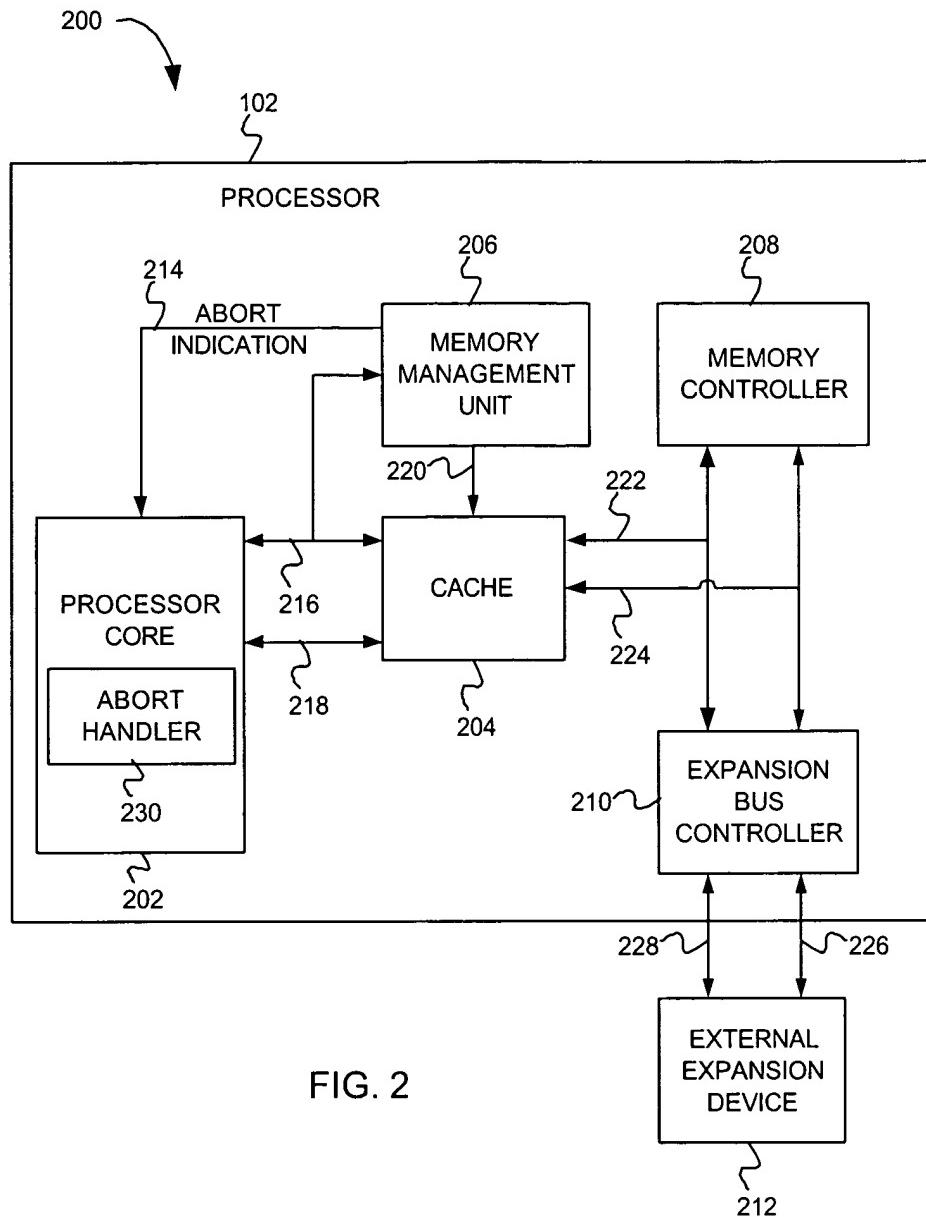


FIG. 2

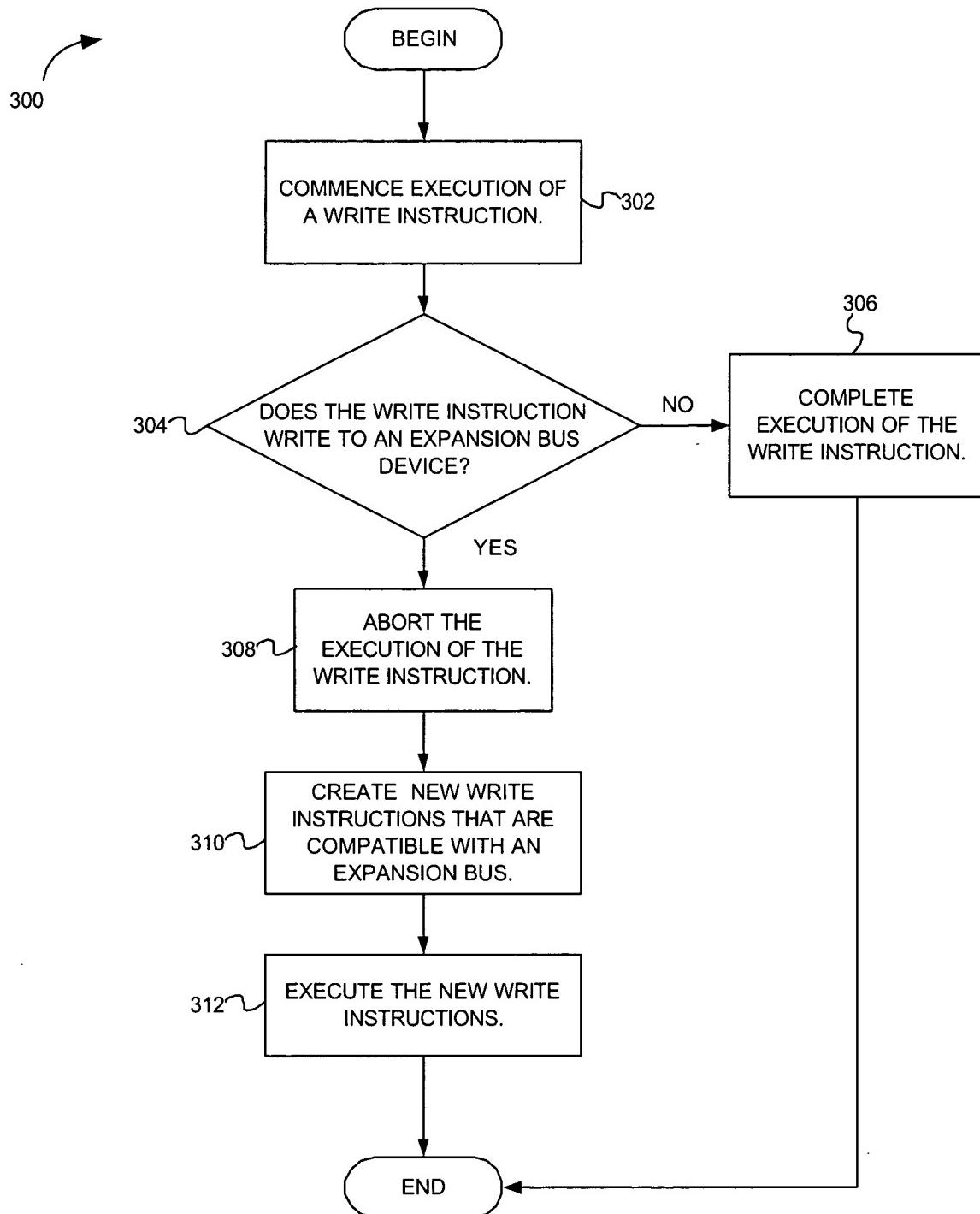


FIG. 3

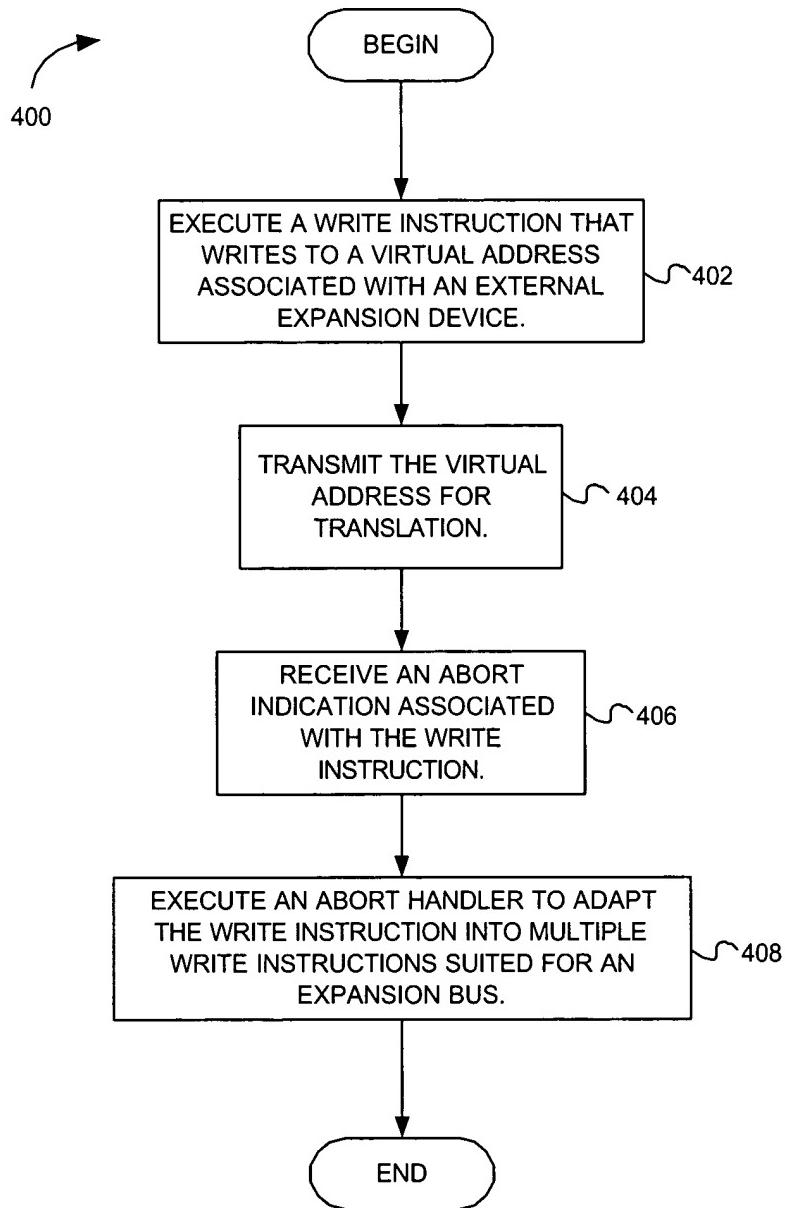


FIG. 4

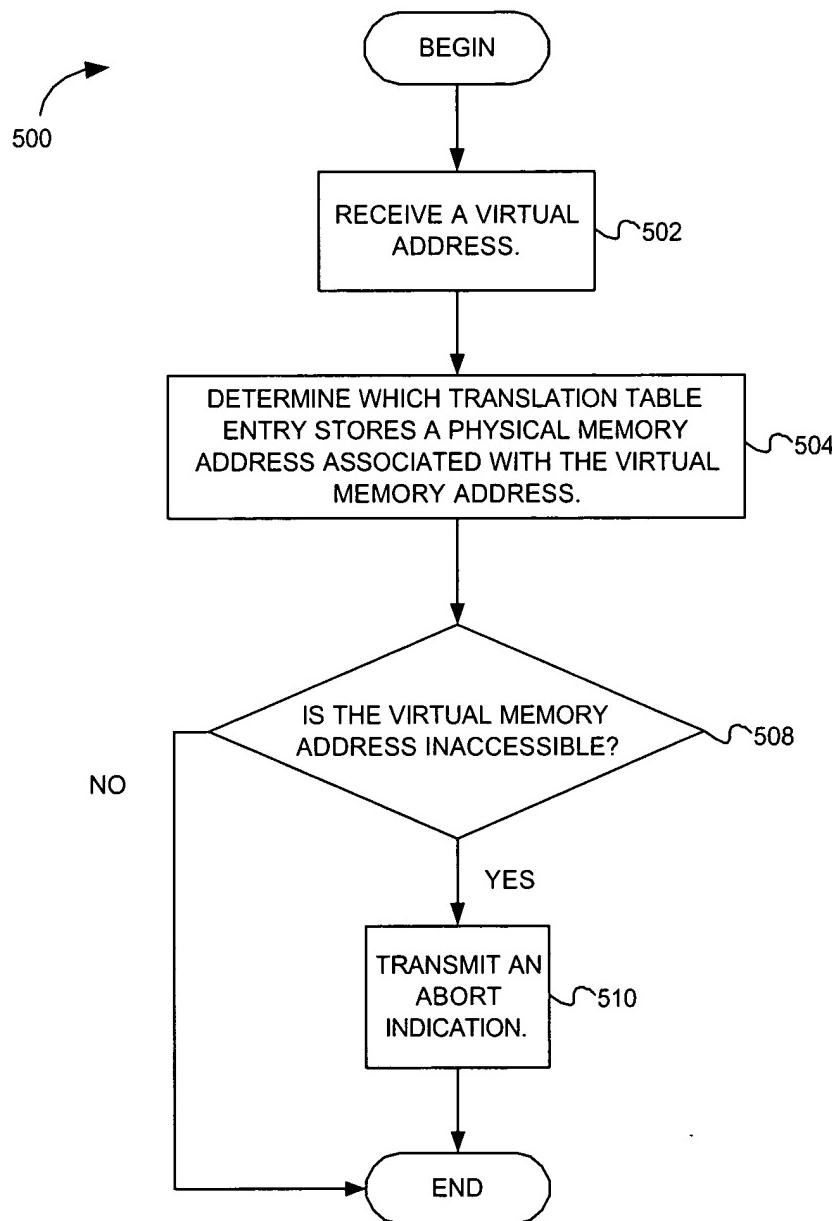


FIG. 5

TITLE: METHOD AND APPARATUS FOR ADAPTING  
WRITE INSTRUCTIONS FOR AN EXPANSION BUS  
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DKT #: 884.A79US1

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600 →

FUNC\_LABEL(expansionAbortHandler)

602 ↗ stmdb sp!,{r0,r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11,lr}

604 ↗ mrc p15,0,r0,c6,c0,0

606 ↗ ldr r1,[r14,#-8]

608 ↗ mov r2,sp

610 ↗ expansionWriteEmulator

612 ↗ ldmia sp!,{r0,r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11,lr}

614 ↗ subs pc,r14,#4

FIG. 6

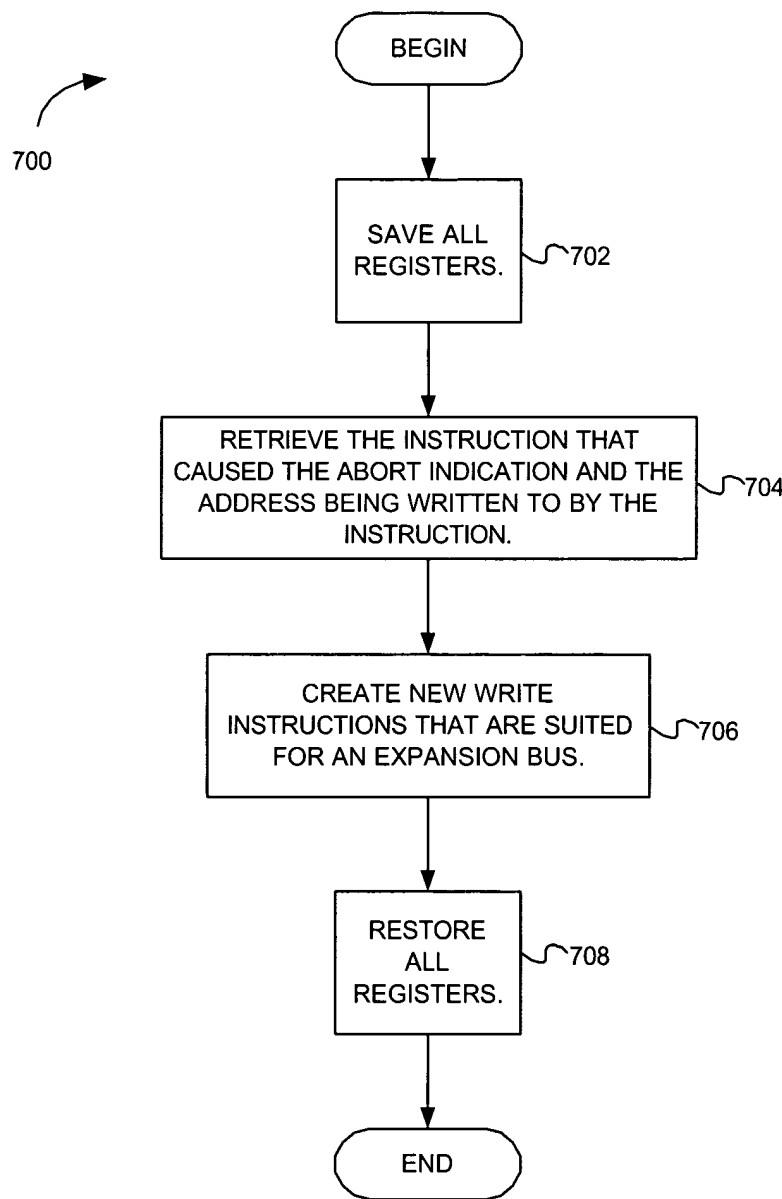


FIG. 7

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```
typedef struct
{
    unsigned long regs[NUMBER_OF_PROCESSOR_REGS];
} xscale_abort_regs;

void expansionWriteEmulator(unsigned long faultAddress,
                            unsigned long faultInstruction,
                            xscale_abort_regs *abortRegs)
{
    unsigned long writeVal;
802    if ( XSCALE_INSTRUCTION_IS_32BIT_WRITE(faultInstruction))
    {
806        writeVal =
            abortRegs->regs[LDR_STR_RD_BITS(faultInstruction)];
808        faultAddress &= 0xFFFFFFFF;
810        *((unsigned short *) (faultAddress + 2)) = (writeVal & 0xFFFF);
812        *((unsigned short *) (faultAddress )) = ((writeVal >> 16) & 0xFFFF);
    }
    return;
}
```

FIG. 8

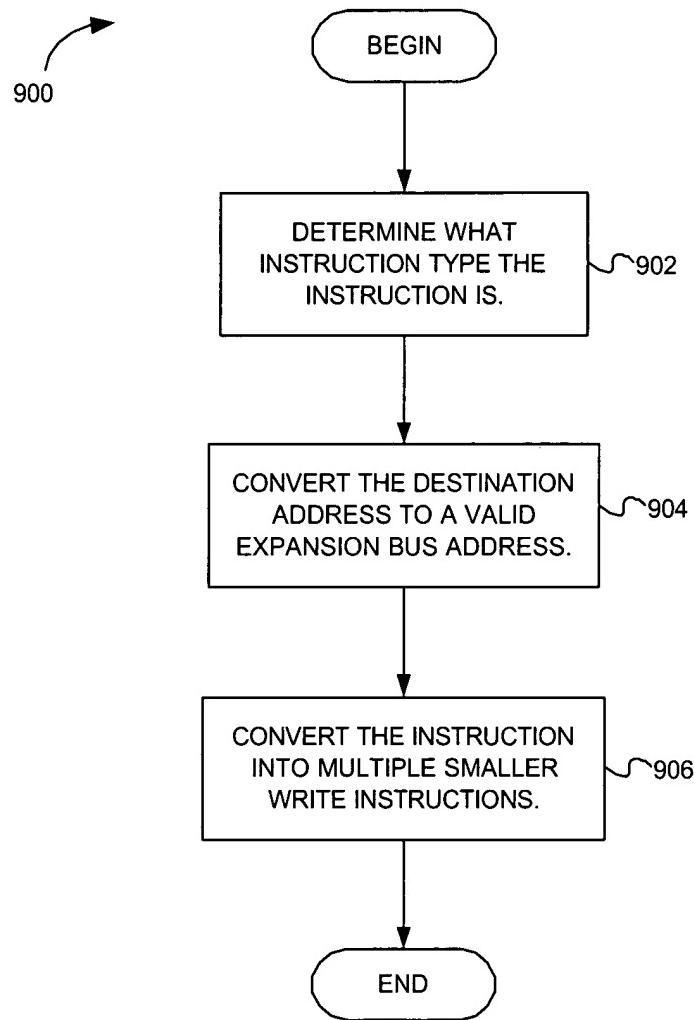


FIG. 9